



Declaration and Power of Attorney

JANNIS

Dean Engelhardt, Elazar Rabbani, Stanley Kline, James G. Stavrianopoulos and Dolly Kirtikar declare that we are respectively citizens of the United States of America, residing at 173 Riverside Drive, New York, New York 10024; 69 Fifth Avenue, New York, New York 10003; 235 Lincoln Place, Brooklyn, New York 11217; 515 West 59 Street, New York, New York 10019; and 42-72 80 Street, Elmhurst, New York 11373, respectively,

that we have read the specification entitled:

MODIFIED NUCLEOTIDES, METHODS OF PREPARING AND UTILIZING AND COMPOSITIONS CONTAINING THE SAME

and the claims thereof; that we understand the content of the foregoing specification, and we verily believe we are the original, first and joint inventors of the invention described and claimed therein; that we do not know and do not believe that this invention was ever known or used in the United States before our invention thereof, or patented or described in any printed publication in any country before our invention thereof, or more than one year prior to this application, or in public use or on sale in the United States more than one year prior to this application; that this invention has not been patented or made the subject of an inventor's certificate in any country foreign to the United States on an application filed by us or our legal representatives or assigns more than twelve months before this application; and that no application for patent or inventor's certificate on this invention has been filed in any country foreign to the United States by us or our representatives or assigns, except as follows:

N O N E

We further declare that we acknowledge our duty to disclose information of which we are aware which is material to the examination of this application.

And we hereby appoint: individually and collectively, Thomas F. Moran, Reg. No. 16,579; Lester W. Clark, Reg. No. 14,954; Christopher C. Dunham, Reg. No. 22,031; Ivan S. Kavrukov, Reg. No. 25,161; John P. White, Reg. No. 28,678; and Mary-Ellen M. Timbers, Reg. No. 27,928, each of them of 30 Rockefeller Plaza, New York, New York 10112, (Tel. 212-977-9550), our attorneys, each with full power of substitution and revocation, to prosecute this application, to make alterations and amendments therein, to receive the patent, and to transact all business in the Patent and Trademark Office connected therewith and to file any International Applications which are based thereon under the provisions of the Patent Cooperation Treaty.

Lastly, we declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

1⁰⁰ Inventor's full name Dean Engelhardt
(Signature)

Date June 22, 1982
Dean Engelhardt

Post Office Address 173 Riverside Drive

New York, New York 10024 NY

2⁰⁰ Inventor's full name Elazar Rabbani
(Signature)

Date June 22, 1982
Elazar Rabbani

Post Office Address 69 Fifth Avenue

New York, New York 10003 NY

3⁰⁰ Inventor's full name Stanley Kline
(Signature)

Date June 22, 1982
Stanley Kline

Post Office Address 235 Lincoln Place

Brooklyn, New York 11217 NY

4th Inventor's full name

J. Stavrianopoulos

(Signature)

James G. Stavrianopoulos

Date June 22, 1982

Post Office Address

515 West 59 Street

New York, New York 10019

NY

5th Inventor's full name

Dollie Kirtikar

(Signature)

Dollie Kirtikar

Date June 22nd 1982

Post Office Address

42-72 80 Street

Elmhurst, New York 11373

NY



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Dean L. Engelhardt, et al. Parent Application
Attorney Docket No: Enz-5 (Div. 6) Art Unit: 123
Filed : Herewith Examiner:
For : Modified Nucleotides, Methods Of Preparing
And Utilizing And Compositions Containing
The Same

Honorable Commissioner of Patents and Trademarks
Washington, D.C. 20231

POWER OF ATTORNEY

Dear Sir:

Enzo Biochem, Inc., a corporation of the State of New York, having its principal place of business at 345 Hudson Street, New York, New York 10014, the owner of the entire right, title and interest in and to the above-identified application and the invention disclosed and/or claimed therein, hereby revokes any and all powers of attorney previously granted herein and appoints as principal attorney, Serle I. Mosoff (Reg. No. 25,900) with full power of substitution and revocation, to prosecute this application, to make alterations and amendments therein, to receive the patent, to transact all business in the Patent and Trademark Office connected therewith and to file any International Applications which are based thereon under the provisions of the Patent Cooperation Treaty.

Enzo Biochem, Inc. hereby appoints as associate attorneys in the above identified application Elaine P. Brenner (Reg. No. 29,517) and Ronald C. Fedus (Reg. No. 32,567).

Please address all communications to:

Serle I. Mosoff, Corporate Counsel
Enzo Biochem, Inc.
345 Hudson Street
New York, New York 10014

and direct all telephone calls regarding this application to Serle I. Mosoff at telephone no. (212) 337-3355.

Enzo Biochem, Inc.

Norman Kelker May 31, 1990

Norman Kelker, Ph.D.
Senior Vice President

Date

EXPRESS MAIL CERTIFICATE	
'Express Mail' Label No.: NB 260 244 655	
Deposit Date	May 31, 1990
I hereby certify that this paper and the attachments hereto are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to the Commissioner of Patents and Trademarks, Washington DC 20231.	
<i>[Signature]</i>	
21 May 1990	Date
Serle I. Mosoff Reg. No. 25,900	



THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Dean Engelhardt et al.

Serial No.: 07/532,461

Group Art Unit: 1803

Filing Date: May 31, 1990

Examiner:
John W. Rollins, Ph.D

For:

PHOSPHATE - MOIETY LABELED DETECTABLE NUCLEOTIDES

Honorable Commissioner of Patents and Trademarks
Washington, D.C. 20231

COPY,

SUBSTITUTE POWER OF ATTORNEY

Dear Sir:

Enzo Diagnostics, Inc., a corporation of the State of New York, having its principal place of business at 40 Oak Drive, Syosset, New York, 11791, the owner of the entire right, title and interest in and to the above-identified application and the invention disclosed and/or claimed therein, hereby revokes any and all powers of attorney previously granted herein and appoints as principal attorney, Ronald C. Fedus (Reg. No. 32,567) with full power of substitution and revocation, to prosecute this application, to make alterations and amendments herein, to receive the patent, to transact all business in the Patent and Trademark Office connected therewith and to file any International Applications which are based thereon under the provisions of the Patent Cooperation Treaty.

Please address all communications to:

EXPRESS MAIL CERTIFICATE

"Express Mail" Label No. GB743016175

Deposit Date APRIL 9, 1993

I hereby certify that this paper and the attachments hereto are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to the Commissioner of Patents and Trademarks, Washington DC 20231.

Ronald C. Fedus
Ronald C. Fedus,
Reg. No. 32,567

APRIL 9, 1993

and direct ^{Dial} all telephone calls regarding this application to Ronald C. Fedus at telephone no. (212) 856-0876.

Ronald C. Fedus, Patent Counsel
Enzo Biochem, Inc.
575 Fifth Avenue (18th Floor)
New York, New York 10017

November 9, 1992
Date

Enzo Diagnostics, Inc.

Barry W. Weiner
Barry W. Weiner
Executive Vice-President



Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

RECEIVED

SEP 06 1991

ELAINE P. BRENNER

215
9/5/91

TO: ENZO DIAGNOSTICS, INC.
40 OAK DRIVE
SYOSSET, NY 11791

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF
THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS
AVAILABLE AT THE U.S. PATENT AND TRADEMARK OFFICE ON THE REEL AND FRAME
NUMBER REFERENCED BELOW. A DIGEST OF THE DOCUMENT HAS ALSO BEEN MADE
AND APPEARS IN THE OFFICE'S RECORDS AS SHOWN:

ASSIGNOR: 001 ENZO BIOCHEM, INC., A CORP. OF NY DOC DATE: 04/04/91

RECORDATION DATE: 04/17/91 NUMBER OF PAGES 010 REEL/FRAME 5673/0274

DIGEST: ASSIGNMENT OF ASSIGNORS INTEREST

ASSIGNEE: 501 ENZO DIAGNOSTICS, INC., 40 OAK DRIVE, SYOSSET, NY 11791,
A CORP. OF NY

SERIAL NUMBER	6-575396	FILING DATE	01/30/84
PATENT NUMBER	4,707,440	ISSUE DATE	11/17/87
SERIAL NUMBER	7-043568	FILING DATE	04/28/87
PATENT NUMBER	4,843,122	ISSUE DATE	06/27/89
SERIAL NUMBER	7-304748	FILING DATE	01/31/89
PATENT NUMBER		ISSUE DATE	00/00/00
SERIAL NUMBER	7-314995	FILING DATE	02/24/89
PATENT NUMBER		ISSUE DATE	00/00/00
SERIAL NUMBER	7-342196	FILING DATE	04/21/89
PATENT NUMBER		ISSUE DATE	00/00/00
SERIAL NUMBER	7-316385	FILING DATE	02/27/89
PATENT NUMBER		ISSUE DATE	00/00/00
SERIAL NUMBER	7-459030	FILING DATE	12/29/89
PATENT NUMBER		ISSUE DATE	00/00/00
SERIAL NUMBER	7-633730	FILING DATE	12/24/90

EXPRESS MAIL CERTIFICATE	
Express Mail® Label No. GB743016175	
Deposit Date	APRIL 9, 1993
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APRIL 9, 1993	
Ronald C. Fedus Reg. No. 32,567	
Date	

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5673/0274



Patent and Trademark Office

ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

PATENT NUMBER

ISSUE DATE 06/00/00

SERIAL NUMBER	7-385986	FILING DATE	07/20/89	RECEIVED
PATENT NUMBER	4,994,373	ISSUE DATE	02/19/91	SEP 05 1991
SERIAL NUMBER	7-006819	FILING DATE	01/23/87	
PATENT NUMBER	4,772,548	ISSUE DATE	09/20/88	ELAINE P. BRENNER
SERIAL NUMBER	7-043670	FILING DATE	04/28/87	
PATENT NUMBER	4,943,523	ISSUE DATE	07/24/90	
SERIAL NUMBER	7-043572	FILING DATE	04/28/87	
PATENT NUMBER	4,849,505	ISSUE DATE	07/18/89	
SERIAL NUMBER	7-015563	FILING DATE	02/13/87	
PATENT NUMBER	4,889,798	ISSUE DATE	12/26/89	
SERIAL NUMBER	7-005327	FILING DATE	01/15/87	
PATENT NUMBER	4,894,325	ISSUE DATE	01/16/90	
SERIAL NUMBER	7-302887	FILING DATE	01/30/89	
PATENT NUMBER	4,897,065	ISSUE DATE	01/30/90	
SERIAL NUMBER	6-646171	FILING DATE	08/30/84	
PATENT NUMBER	4,755,458	ISSUE DATE	07/05/88	
SERIAL NUMBER	6-738135	FILING DATE	05/24/85	
PATENT NUMBER	4,746,604	ISSUE DATE	05/24/88	
SERIAL NUMBER	6-823921	FILING DATE	01/30/86	
PATENT NUMBER	4,900,659	ISSUE DATE	02/13/90	
SERIAL NUMBER	6-831250	FILING DATE	02/19/86	
PATENT NUMBER	4,868,103	ISSUE DATE	09/19/89	
SERIAL NUMBER	7-194702	FILING DATE	05/17/88	
PATENT NUMBER		ISSUE DATE	06/00/00	
SERIAL NUMBER	7-192256	FILING DATE	05/10/88	
PATENT NUMBER	5,024,933	ISSUE DATE	06/18/91	
SERIAL NUMBER	7-625584	FILING DATE	12/10/90	
PATENT NUMBER		ISSUE DATE	06/00/00	
SERIAL NUMBER	7-140980	FILING DATE	01/05/88	
PATENT NUMBER		ISSUE DATE	06/00/00	
SERIAL NUMBER	7-539279	FILING DATE	06/15/90	
PATENT NUMBER		ISSUE DATE	06/00/00	
SERIAL NUMBER	7-520682	FILING DATE	05/08/90	
PATENT NUMBER		ISSUE DATE	06/00/00	

CONTINUED

5673/0274



Patent and Trademark Office
 ASSISTANT SECRETARY AND COMMISSIONER
 OF PATENTS AND TRADEMARKS
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JUN
71991
SERIAL NUMBER
PATENT NUMBER7-531953
FILING DATE
ISSUE DATE
06/01/90
00/00/00SERIAL NUMBER
PATENT NUMBER7-532461
FILING DATE
ISSUE DATE
05/31/90
00/00/00

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SERIAL NUMBER
PATENT NUMBER7-567039
FILING DATE
ISSUE DATE
08/13/90
00/00/00RECEIVED
P. BRENNERSERIAL NUMBER
PATENT NUMBER7-532704
FILING DATE
ISSUE DATE
06/04/90
00/00/00SERIAL NUMBER
PATENT NUMBER7-548348
FILING DATE
ISSUE DATE
07/02/90
00/00/00- SERIAL NUMBER
PATENT NUMBER7-607347
FILING DATE
ISSUE DATE
10/30/90
00/00/00SERIAL NUMBER
PATENT NUMBER7-120205
FILING DATE
ISSUE DATE
11/05/87
00/00/00SERIAL NUMBER
PATENT NUMBER7-509110
FILING DATE
ISSUE DATE
04/13/90
00/00/00SERIAL NUMBER
PATENT NUMBER7-443812
FILING DATE
ISSUE DATE
11/29/89
00/00/00SERIAL NUMBER
PATENT NUMBER7-160607
FILING DATE
ISSUE DATE
02/26/88
00/00/00SERIAL NUMBER
PATENT NUMBER7-394284
FILING DATE
ISSUE DATE
08/15/89
00/00/00SERIAL NUMBER
PATENT NUMBER7-479327
FILING DATE
ISSUE DATE
02/13/90
00/00/00- SERIAL NUMBER
PATENT NUMBER7-582830
FILING DATE
ISSUE DATE
09/13/90
00/00/00SERIAL NUMBER
PATENT NUMBER7-590548
FILING DATE
ISSUE DATE
09/27/90
00/00/00SERIAL NUMBER
PATENT NUMBER7-502199
FILING DATE
ISSUE DATE
03/28/90
00/00/00SERIAL NUMBER
PATENT NUMBER7-501643
FILING DATE
ISSUE DATE
03/29/90
00/00/00SERIAL NUMBER
PATENT NUMBER7-607787
FILING DATE
ISSUE DATE
10/26/90
00/00/00

CONTINUED 5673/0274



Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

SERIAL NUMBER 7-521762 FILING DATE 05/08/90
PATENT NUMBER 5,013,831 ISSUE DATE 05/07/91

SERIAL NUMBER 7-428087 FILING DATE 10/27/89
PATENT NUMBER ISSUE DATE 00/00/00

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SEP 05 1991

ELAINE P. BRENNER

SERIAL NUMBER 7-043668 FILING DATE 04/28/87
PATENT NUMBER 4,952,685 ISSUE DATE 08/28/90

SERIAL NUMBER 7-513723 FILING DATE 04/24/90
PATENT NUMBER 5,002,885 ISSUE DATE 03/26/91



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

April 16, 1991
New York, New York

Honorable Commissioner of
Patents and Trademarks
Washington, D.C. 20231

Attn.: Assignment Branch

REQUEST FOR RECORDATION
OF BLANKET ASSIGNMENT

Sir:

Enclosed herewith please find an original blanket Assignment dated April 4, 1991 between Enzo Biochem, Inc. and Enzo Diagnostics, Inc. This document is being submitted pursuant to 37 CFR 1.331 for recording in the Assignment Division of the Patent and Trademark Office. Please record this document and return the recorded document to the undersigned.

The Patent and Trademark Office is hereby authorized to charge Deposit Account No. 05-1135 for the recordation fee in the amount of \$8.00. The Patent and Trademark Office is also hereby authorized to charge Deposit Account No. 05-1135 for any additional fees required in connection herewith and to credit any overpayment therein.

EXPRESS MAIL CERTIFICATE	
"Express Mail" Label No.	FB 283463026
Deposit Date	April 16, 1991
I hereby certify that this paper and the attachments herein are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to the Commissioner of Patents and Trademarks, Washington DC 20231.	
Elaine P. Brenner	4/16/91
Elaine P. Brenner Reg. No. 29,517	Date

Enzo Diagnostics, Inc.

40 Oak Drive
Syosset, NY 11791
(212) 924-5409 or 9578

Respectfully submitted,

Elaine P. Brenner

Elaine P. Brenner
Registration No. 29,517

EXPRESS MAIL CERTIFICATE	
"Express Mail" Label No.	GB743016175
Deposit Date	APRIL 9, 1991
I hereby certify that this paper and the attachments herein are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to the Commissioner of Patents and Trademarks, Washington DC 20231.	
Ronald C. Fedus	APRIL 9, 1991
Ronald C. Fedus Reg. No. 32,567	Date

ASSIGNMENT

In consideration for One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, Elazar Rabbani, the undersigned, on behalf of Enzo Biochem, Inc., the assignor hereunder, a corporation of the State of New York, having a place of business at 345 Hudson Street, New York, New York 10014;

Hereby sells, assigns and transfers to: Enzo Diagnostics, Inc., a corporation of the State of New York, having a place of business at 40 Oak Drive, Syosset, NY 11791, its successors, assigns and legal representatives, the entire right, title and interest for the United States and all foreign countries, in and to any and all improvements which are disclosed in the following applications for Letters Patent:

Serial No.:	140,980
Title:	"Modified Nucleotides, Methods of Preparing and Utilizing and Compositions Containing The Same" Dean Engelhardt, et al.
Inventors:	
Filing Date:	January 5, 1988
(Doc. No.):	Enz-5(C)2)
Serial No.:	539,279
Title:	"Modified Nucleotides, Methods of Preparing and Utilizing and Compositions Containing The Same" Dean Engelhardt, et al.
Inventors:	
Filing Date:	June 15, 1990
Doc. No.:	Enz-5(Div. 2)(C))
Serial No.:	520,682
Title:	"Modified Nucleotides, Methods of Preparing and Utilizing and Compositions Containing The Same" Dean Engelhardt, et al.
Inventors:	
Filing Date:	May 8, 1990
(Doc. No.):	Enz-5(Div. 3))
Serial No.:	532,704
Title:	"Modified Nucleotides, Methods of Preparing and Utilizing and Compositions Containing The Same" Dean Engelhardt, et al.
Inventors:	
Filing Date:	June 4, 1990
(Doc. No.):	Enz-5(Div. 4))

Serial No.: 531,953
Title: "Modified Nucleotides, Methods of Preparing and Utilizing and Compositions Containing The Same"
Inventors: Dean Engelhardt, et al.
Filing Date: June 1, 1990
(Doc. No.: Enz-5(Div. 5))

Serial No.: 532,461
Title: "Modified Nucleotides, Methods of Preparing and Utilizing and Compositions Containing The Same"
Inventors: Dean Engelhardt, et al.
Filing Date: May 31, 1990
(Doc. No.: Enz-5(Div. 6))

Serial No.: 567,039
Title: "Modified Nucleotides, Methods of Preparing and Utilizing and Compositions Containing The Same"
Inventors: Dean Engelhardt, et al.
Filing Date: August 13, 1990
(Doc. No.: Enz-5(Div. 7))

Serial No.: 548,348
Title: "Modified Nucleotides, Methods of Preparing and Utilizing and Compositions Containing The Same"
Inventors: Dean Engelhardt, et al.
Filing Date: July 2, 1990
(Doc. No.: Enz-5(Div. 8))

Serial No.: 607,347
Title: "Methods and Structures Employing Chemically Labeled Polynucleotide Probes"
Inventors: Jannis Stavrianopoulos, et al.
Filing Date: October 30, 1990
(Doc. No.: Enz-7(CIP)C2)

Serial No.: 120,205
Title: "Kit for Terminally Labeling DNA"
Inventors: Christine Brakel, et al.
Filing Date: November 5, 1987
(Doc. No.: Enz-8(C)2)

Serial No.: 607,787
Title: "Assay Method Utilizing Polynucleotide Sequences"
Inventors: Robert Pergolizzi, et al.
Filing Date: October 26, 1990
(Doc. No.: Enz-11 (C)2)

Enzo Diagnostics, Inc.

Serial No.: 521,762
Title: "Detectable Molecules, Method of Preparation and Use"
Inventors: Dean Engelhardt, et al.
Filing Date: May 8, 1990
(Doc. No.: Enz-13 (Div. 4)C2)

Serial No.: 428,087
Title: "Hybridization Method For The Detection Of Genetic Material"
Inventors: Dean Engelhardt, et al.
Filing Date: October 27, 1989
(Doc. No.: Enz-15(Div. 1))

Serial No.: 590,548
Title: "In Vivo Labelling of Polynucleotide Sequences"
Inventors: Jannis Stavrianopoulos, et al.
Filing Date: September 27, 1990
(Doc. No.: Enz-16(C) (Div. 1))

Serial No.: 502,199
Title: "Method For Detecting An Analyte Moiety By Means of Signal Localization"
Inventor: Elazar Rabbani
Filing Date: March 28, 1990
(Doc. No.: Enz-24(CIP)/25 C1)

Serial No.: 501,643
Title: "Method For Detecting An Analyte Moiety By Means of Signal Localization"
Inventor: Elazar Rabbani
Filing Date: March 29, 1990
(Doc. No.: Enz-24(CIP)/25 Div.1)

Serial No.: 394,284
Title: "Novel One Step Method and Polynucleotide Compounds For Hybridizing to Target Polynucleotides"
Inventors: Jannis Stavrianopoulos, et al.
Filing Date: August 15, 1989
(Doc. No.: Enz-26(C))

Serial No.: 479,327
Title: "Nucleotide Sequence Composition And Method For Detection of Neisseria Gonorrhoea And Method For Screening For A Nucleotide Sequence That Is Specific For A Genetically Distinct Group"
Inventors: Andrew Lo, et al.
Filing Date: February 13, 1990
(Doc. No.: Enz-27(C))

Serial No.: 582,830
Title: "Polynucleotide Probes And A Method For Their Preparation"
Inventors: David Mao, et al.
Filing Date: September 13, 1990
(Doc. No.: Enz-29(C))

Serial No.: 509,110
Title: "Polynucleotide Composition and Method"
Inventors: Huey-Lang Yang, et al.
Filing Date: April 13, 1990
(Doc. No.: Enz-31(C))

Serial No.: 443,812
Title: "Inhibition of Self-Quenching In Specific Binding Assay"
Inventor: Stanley Kline
Filing Date: November 29, 1989
(Doc. No.: Enz-32(C))

Serial No.: 160,607
Title: "End-Labeled Nucleotide Probe"
Inventors: Christine L. Brakel, et al.
Filing Date: February 26, 1988
(Doc. No.: Enz-34)

Serial No.: 194,702
Title: "Device With Gradient-Regulated Localized Signal"
Inventors: Elazar Rabbani, et al.
Filing Date: May 17, 1988
(Doc. No.: Enz-35)

Serial No.:	192,256
Title:	"Method For Sample Adherence To Test Substrate"
Inventors:	Huey-Lang Yang, et al.
Filing Date:	May 10, 1988
(Doc. No.:	Enz-36)
Serial No.:	625,584
Title:	"Detection System For Visualizing Proteolysis Of Cellular Proteins"
Inventor:	Maurice Rosenstraus
Filing Date:	December 10, 1990
(Doc. No.:	Enz-37(C))
Serial No.:	304,748
Title:	"Time-Resolved Fluorometer"
Inventor:	Ian Hurley
Filing Date:	January 31, 1989
(Doc. No.:	Enz-38)
Serial No.:	314,995
Title:	"Energy Transfer Hybridization Assay Using Intercalators and Lanthanide Metals"
Inventors:	Elazar Rabbani, et al.
Filing Date:	February 24, 1989
(Doc. No.:	Enz-39)
Serial No.:	342,196
Title:	"Non-Radioactive In Situ Hybridization Assay"
Inventors:	Joanne Spadoro, et al.
Filing Date:	April 21, 1989
(Doc. No.:	Enz-40)
Serial No.:	316,385
Title:	"Dual-Probe Energy Transfer Hybridization Assay"
Inventors:	Ian Hurley, et al.
Filing Date:	February 27, 1989
(Doc. No.:	Enz-41)
Serial No.:	459,030
Title:	"Amplification Capture Assay"
Inventors:	Christine Brakel, et al.
Filing Date:	December 29, 1989
(Doc. No.:	Enz-43)

Serial No.: 633,730
Title: "Method for Detecting A Target Polynucleotide In A Sample Using A Background Reducing Reagent, And Composition And Kit Comprising Such A Reagent"
Inventor: Jannis G. Stavrianopoulos
Filing Date: December 24, 1990
(Doc. No.: Enz-44)

and in and to said applications for Letters Patent and all divisional, continuing, substitute, renewal, reissue, and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said improvements; and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on said improvements:

Hereby also sells, assigns and transfers to: Enzo Diagnostics, Inc., a corporation of the State of New York, having a place of business at 40 Oak Drive, Syosset, NY 11791, its successors, assigns and legal representatives, the entire right, title and interest for the United States and all foreign countries, in and to any and all improvements which are disclosed in the following United States Letters Patent:

Patent No.: 4,994,373
Title: "Method And Structures Employing Chemically-Labelled Polynucleotide Probes"
Inventors: Jannis G. Stavrianopoulos, et al.
Issue Date: February 19, 1991
(Doc. No.: Enz-7 (CIP)C)

Patent No.: 4,772,548
Title: "Radioisotopicassay Using Isotope Transfer To Chelator-Target Recognition Molecule Conjugate"
Inventor: Jannis G. Stavrianopoulos
Issue Date: September 20, 1988
(Doc. No.: Enz-12 (Div. 2))

Patent No.: 4,707,440
Title: "Nucleic Acid Hybridization Assay And Detectable Molecules Useful In Such Assay"
Inventor: Jannis G. Stavrianopoulos
Issue Date: November 17, 1987
(Doc. No.: Enz-13)

Enzo Diagnostics, Inc.

Patent No.: 4,843,122
Title: "Detectable Molecules, Method
Of Preparation And Use"
Inventor: Jannis G. Stravrianopoulos
Issue Date: June 27, 1989
(Doc. No.: Enz-13 (Div. 1))

Patent No.: 4,943,523
Title: "Detectable Molecules, Method
Of Preparation And Use"
Inventor: Jannis G. Stravrianopoulos
Issue Date: July 24, 1990
(Doc. No.: Enz-13 (Div. 2))

Patent No.: 4,952,685
Title: "Detectable Molecules, Method
Of Preparation And Use"
Inventor: Jannis G. Stravrianopoulos
Issue Date: August 28, 1990
(Doc. No.: Enz-13 (Div. 4))

Patent No.: 5,002,885
Title: "Detectable Molecules, Method
Of Preparation And Use"
Inventor: Jannis G. Stravrianopoulos
Issue Date: March 26, 1991
(Doc. No.: Enz-13 (Div. 4)C1)

Patent No.: 4,849,505
Title: "Detectable Molecules, Method
Of Preparation And Use"
Inventor: Jannis G. Stravrianopoulos
Issue Date: July 18, 1989
(Doc. No.: Enz-13 (Div. 5))

Patent No.: 4,889,798
Title: "Heterologous System For The
Detection of Chemically Labeled
DNA and Other Biological Materials
Providing A Receptor Or Target
Molety Thereon"
Inventor: Elazar Rabbani
Issue Date: December 26, 1989
(Doc. No.: Enz-14(C))

Patent No.:	4,894,325
Title:	"Hybridization Method For The Detection Of Genetic Material"
Inventors:	Dean L. Engelhardt, et al.
Issue Date:	January 16, 1990
(Doc. No.:	Enz-15(P)C)
Patent No.:	4,987,065
Title:	"In Vivo Labelling of Polynucleotide Sequences"
Inventors:	Jannis G. Stravrianopoulos, et al.
Issue Date:	January 22, 1991
(Doc. No.:	Enz-16(C))
Patent No.:	4,755,458
Title:	"Composition And Method For The Detection Of The Presence Of A Polynucleotide Sequence Of Interest"
Inventors:	Elazar Rabbani, et al.
Issue Date:	July 5, 1988
(Doc. No.:	Enz-18)
Patent No.:	4,746,604
Title:	"Specific Binding Assays Utilizing A Viable Cell As A Label"
Inventor:	Solomon Mowshowitz
Issue Date:	May 24, 1988
(Doc. No.:	Enz-21)
Patent No.:	4,900,659
Title:	"Nucleotide Sequence Composition And Method For Detection Of Neisseria Gonorrhoeae And Method For Screening For A Nucleotide Sequence That Is Specific For A Genetically Distinct Group"
Inventors:	Andrew Lo, et al.
Issue Date:	February 13, 1990
(Doc. No.:	Enz-27)
Patent No.:	4,868,103
Title:	"Analyte Detection By Means Of Energy Transfer"
Inventors:	Jannis G. Stravrianopoulos, et al.
Issue Date:	September 19, 1989
(Doc. No.:	Enz-28)

and in and to said Letters Patent and all divisional, continuing, substitute, renewal, reissue, and all other applications for Letters
 Enzo Diagnostics, Inc.

Patent which have been or shall be filed in the United States and all foreign countries on any of said improvements; and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on said improvements:

Agrees that said Assignee may apply for and receive Letters Patent for said improvements in its own name; and that, when requested, without charge to but at the expense of said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said improvements; execute all rightful oaths, assignments, powers of attorney and other papers, communicate to said Assignee, its successors, assigns, and representatives, all facts known to the undersigned relating to said improvements and the history thereof; and generally do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for Letters Patent and all patents on said improvements, in said Assignee, its successors, assigns and legal representatives; and

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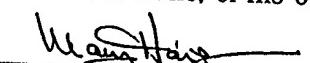

Elazar Rabbani, President
Enzo Biochem, Inc.

Acknowledgment

State of NEW YORK
County of NEW YORK } ss:

On this 4th day of April, 1991 personally appeared before me ELAZAR RABBANI to me known, and known by me to be the same person described in and who executed the foregoing instrument, and acknowledged that he executed the same, of his own free will and for the purposes set forth.

MARY HAIG
Notary Public, State of New York
No. 41-1626626
Qualified In Queens County
Certificate Filed in New York County
Commission Expires October 31, 1991


Notary Public

Enzo Diagnostics, Inc.